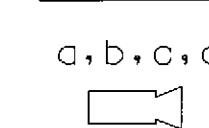
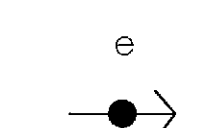


**EXISTING VIDEO DETECTION**



**PROPOSED OPTICOM**



THE CONTACT PERSONS FOR DISTRICT #4 / OOTS ARE AS FOLLOWS:

District #4  
Ms. Erin Kuhn  
Assistant District Engineer - Traffic  
Phone: 410-321-2781

Mr. Michael Pasquariello  
District Utility Engineer  
Phone: 410-321-2841

Mr. Andre Futrell  
Assistant District Engineer - Maintenance  
Phone: 410-321-2761

Mr. Donald Schaefer  
Assistant District Engineer - Construction  
Phone: 410-321-2821

Office Of Traffic & Safety

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

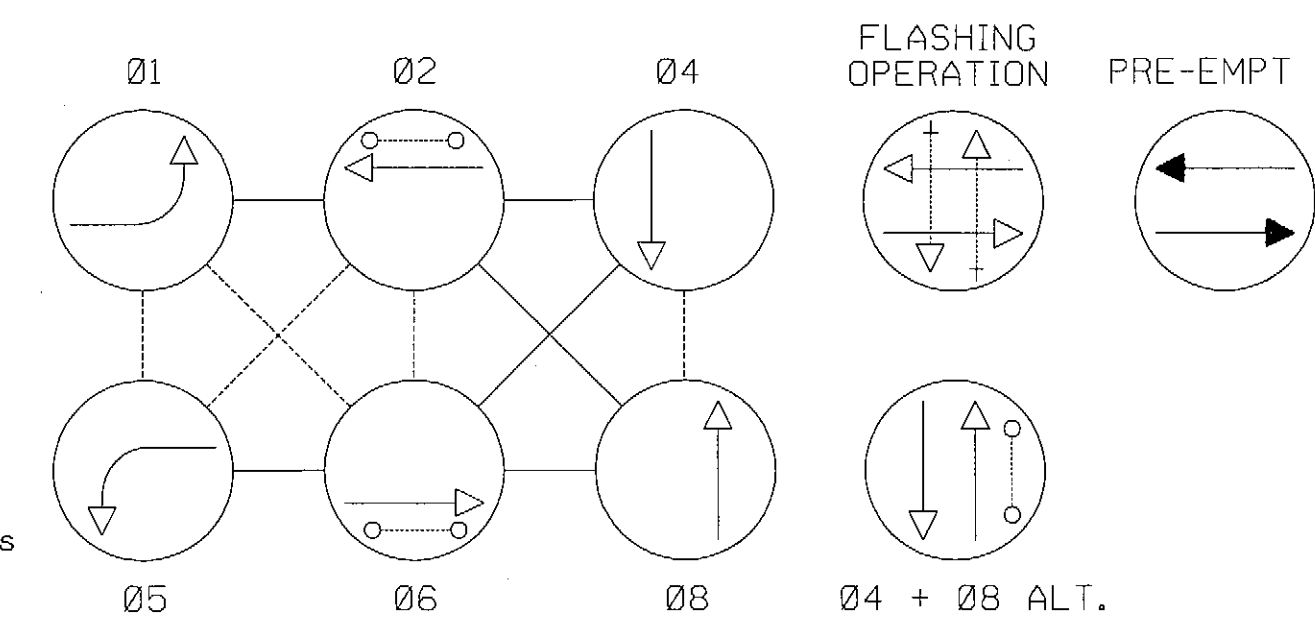
Mr. Robert Snyder  
Assistant Division Chief, Traffic Operations  
410-787-7630

Mr. Edward Rodenhizer  
Team Leader Signal Operations  
Phone: 410-787-7650

Mr. Eugene Bailey  
Team Leader Sign Operations  
410-787-7670

The Power Company Representative is:  
Baltimore Gas & Electric Company  
7317 Parkway Drive South  
Hanover, MD 21076  
Phone: 410-859-9062

**NEMA PHASING**



**PHASING NOTES:**  
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.  
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

**EQUIPMENT LIST 'A'**

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
----------	----------	-------------

NONE - ALL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

**EQUIPMENT LIST 'B'**

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

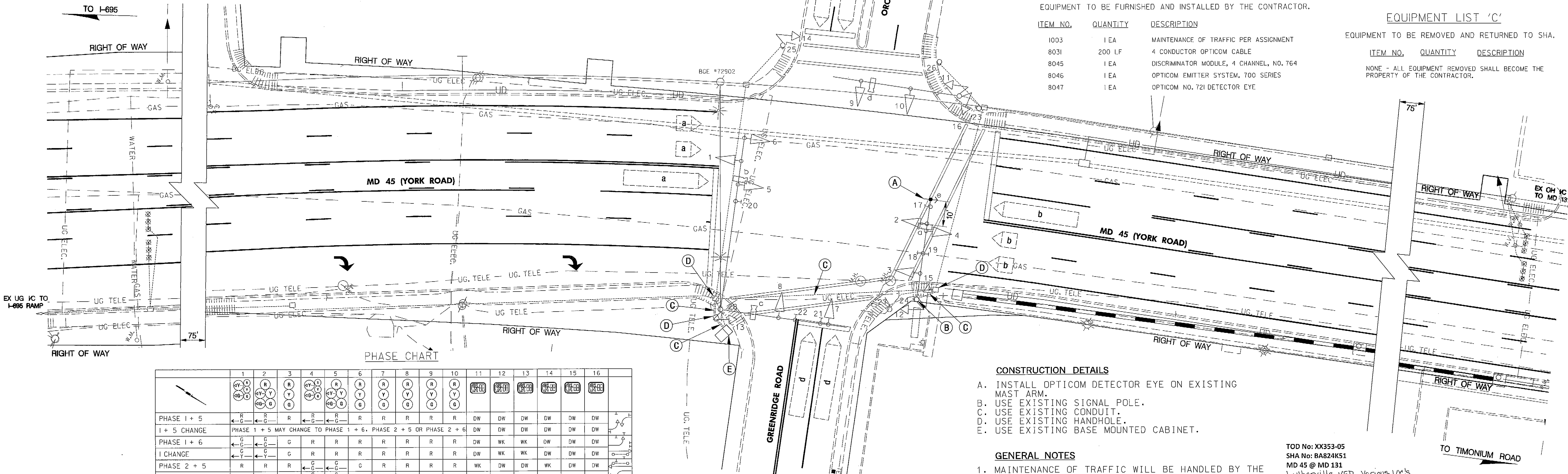
ITEM NO.	QUANTITY	DESCRIPTION
1003	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
8031	200 LF	4 CONDUCTOR OPTICOM CABLE
8045	1 EA	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
8046	1 EA	OPTICOM EMITTER SYSTEM, 700 SERIES
8047	1 EA	OPTICOM NO. 721 DETECTOR EYE

**EQUIPMENT LIST 'C'**

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION
----------	----------	-------------

NONE - ALL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



**PHASE CHART**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 + 5	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 + 5 CHANGE	C	C	C	C	C	C	C	C	C	C	DW	DW	DW	DW	DW	DW
PHASE 1 + 6	C	C	G	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
1 CHANGE	C	C	G	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 2 + 5	R	R	R	R	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
2 CHANGE	R	R	R	R	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	WK	WK	WK	DW	DW	DW
PED. CLEARANCE	C	G	G	G	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 + 8	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
4 + 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 + 8 ALT.	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	WK	WK	WK
PED. CLEARANCE	R	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
4 + 8 ALT. CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PRE-EMPTION I	C	G	G	G	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
PRE-EMPT. I CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

**UTILITY LEGEND**

— E — E —	ELECTRIC CABLES	— SD — SD —	STORM DRAIN
— A — A —	AERIAL CABLES	— G — G —	GAS MAIN
— T — T —	TELEPHONE CABLES	— W — W —	WATER MAIN
— F — F —	FIBER-OPTIC	— S — S —	SEWER MAIN

- A - 4 CONDUCTOR OPTICOM CABLE
- EPS - EXISTING POWER SERVICE
- EXISTING GROUND ROD - 3/4 IN. DIAMETER X 10 FOOT LENGTH

**CONSTRUCTION DETAILS**

- INSTALL OPTICOM DETECTOR EYE ON EXISTING MAST ARM.
- USE EXISTING SIGNAL POLE.
- USE EXISTING CONDUIT.
- USE EXISTING HANDHOLE.
- USE EXISTING BASE MOUNTED CABINET.

**GENERAL NOTES**

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MDSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
- THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
- THE CONTRACTOR SHALL DELIVER ONE (1) OPTICOM EMITTER SYSTEM, 700 SERIES TO THE LUTHERVILLE VOLUNTEER FIRE COMPANY, INC. CONTACT ROBERT J. SCHOTT AT 410-252-3134.

TOD No: XX353-05  
SHA No: BA824K51  
MD 45 @ MD 131  
Lutherville VFD Various VOLS

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 45 (YORK ROAD) AT GREENRIDGE ROAD/ORCHARD SQUARE  
LUTHERVILLE, MD

**TRAFFIC SIGNALIZATION PLAN**

SCALE: 1" = 20' ADVERTISED DATE: 8/4/87 CONTRACT NO.: BA7085171

DESIGNED BY: W.R. SMITH COUNTY: BALTIMORE  
DRAWN BY: W.R. SMITH LOGMILE: 03004503.41  
CHECKED BY: C.B.M. TMS NO.: J883  
F.A.P. NO.: TOD NO.:

TS NO. 2141F DRAWING SG-02 OF 06 SHEET NO. 02 OF 06

APPROVALS
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

REVISIONS
(F) INSTALL OPTICOM DETECTION FOR SOUTHBOUND MD 45 (YORK ROAD) SHA NO. XX353-05
(E) RECONSTRUCT SIGNAL DUE TO WIDENING SHA NO. BA7085171

PLOTTED: Tuesday, February 23, 2010 AT 02:23 PM  
FILE: I:\PROJECTS\MD45\MD45\_0046\Drawings\TRA\MD 45 at Greenridge Road\SG-P001\_Greenridge.dgn

**STV**  
STV Incorporated  
7125 Ambassador Road, Suite 200  
Baltimore, MD 21244  
www.stvinc.com

BY: gulliamc